

ABSTRACT

A diester represented by the formula



wherein A represents a cyclohexane ring, cyclohexene ring
5 or benzene ring, X is H or methyl group, R^x and R^y are the
same or different and each is C3-C18 branched-chain alkyl
group, C1-C18 straight-chain alkyl group, C2-C18 straight-
chain alkenyl or C3-C10 cycloalkyl, provided that when A is
a benzene ring, R^x and R^y are different from each other and
10 -COOR^x and -COOR^y are attached to two adjacent carbon atoms
of the benzene ring, and having the following properties:

- 1) a total acid number of 0.05 mgKOH/g or less,
- 2) a sulfated ash content of 10 ppm or less,
- 3) a sulfur content of 20 ppm or less,
- 15 4) a phosphorus content of 20 ppm or less,
- 5) a peroxide value of 1.0 meq/kg or less,
- 6) a carbonyl value of 10 or less;
- 7) a volume resistivity of $1 \times 10^{11} \Omega \cdot \text{cm}$ or more,
- 8) a hydroxyl value of 3 mgKOH/g or less, and
- 20 9) a water content of 100 ppm or less,

a process for preparing the same and a refrigerator
lubricating oil comprising the diester.